

## LIST OF QUESTIONS TO PREPARE FOR THE EXAMINATION

1. History of pathological anatomy.
2. Research methods in pathomorphology.
3. Disorders of hemoglobinogenic pigment metabolism.
4. Cellular dystrophies: definitions, principles of classification, mechanisms of development.
5. Disorders of mineral metabolism (calcium and copper).
6. Morphology of protein dystrophies. Causes, classification, mechanisms of development.
7. Morphology of fatty dystrophies. Causes, classification, mechanisms of development.
8. Morphology of melanin and nucleoprotein metabolism disorders.
9. Necrosis: causes, mechanisms, clinical and morphological forms, outcomes.
10. Apoptosis: biological significance, mechanisms, differences between apoptosis and necrosis.
11. Amyloidosis: classification, morphological manifestations, outcomes.
12. Reparation (regeneration and fibroplasia), granulation tissue, stages of wound healing.
13. Morphology of compensatory-adaptive processes: hypertrophy, hyperplasia, atrophy, metaplasia.
14. Pathological changes in the cell nucleus.
15. Pathological anatomy of organ failure.
16. Regeneration: definitions, types, and levels. Sclerosis and scarring.
17. Pathomorphology of accumulation of complex proteins and lipids: hyalinosis, obesity, cachexia.
18. Signs of clinical and biological death. Fundamentals of thanatogenesis.
19. Shock: definitions, types, mechanisms.
20. Venous plethora: classification, morphology, significance.
21. Ischemia: causes, types, mechanisms of development.
22. Arterial plethora: classification, morphology, significance.
23. Thrombosis: causes, mechanism of thrombosis, types of blood clots, outcomes.
24. Embolism: causes, types, outcomes.
25. Morphology of lymphatic disorders.

26. Exudative inflammation: types, features of exudate and transudate..
27. Proliferative inflammation: types, general structure, and differences of granulomas.
28. Etiology and pathogenesis of inflammation. Stages of inflammation.
29. Morphology of immunopathological processes, the role of 4 types of immunological reactions in pathology..
30. Morphology of primary and secondary immunodeficiencies.
31. Heart attack: causes, types, outcomes.
32. Bleeding: types, mechanisms, outcomes.
33. Circulatory disorders: stasis, sludge syndrome, plasmorrhagia. Causes, morphology, outcomes.
34. Biological and medical significance of compensatory-adaptive processes. Phases of compensatory-adaptive processes.
35. Features of a tumor cell. Anaplasia. Types of tumor growth.
36. Benign tumors. Criteria for benign tumors.
37. Precancerous conditions and malignancy.
38. Theories of tumor growth. Stages of carcinogenesis.
39. Epithelial organ-specific tumors.
40. Tumors of the nervous system. Features of their biological behavior, classification.
41. Tumors of melanin-forming tissue.
42. Malignant tumors. Criteria for malignant tumors.
43. Mesenchymal tumors: classification, morphology, features of biological behavior.
44. Metastasis: definition, stages, ways of metastasis.
45. Carcinogenesis, etiology of tumor growth.
46. Molecular basis of carcinogenesis. Antitumor immunity.
47. Malignancy process: epithelial dysplasia and Ca in situ.
48. Differential diagnosis of benign and malignant tumors. TNM system.
49. Features of childhood tumors.
50. Anemia: definition, etiology, pathogenesis, morphological manifestations, outcomes.

51. Tumors of the blood system: acute and chronic leukemia. Etiology, pathogenesis, morphological manifestations, outcomes.
52. Non-neoplastic pathology of leukocytes (leukemoid reactions, lymphadenitis, infectious mononucleosis, cat scratch disease). General characteristics, morphological manifestations, outcomes.
53. Tumors of lymphoproliferative tissues (lymphoma). Features, classification, main types of lymphoma.
54. Lymphogranulomatosis (Hodgkin's disease). Etiology, pathogenesis, morphological manifestations, outcomes.
55. Atherosclerosis. Etiology, pathogenesis, morphological manifestations, outcomes.
56. Hypertensive disease. Etiology, pathogenesis, morphological manifestations, outcomes.
57. Cerebrovascular diseases: etiology, pathogenesis, morphological characteristics, association with hypertensive disease.
58. Coronary heart disease. Myocardial infarction. Etiology, pathogenesis, morphological manifestations, outcomes.
59. Rheumatism: etiology, pathogenesis, morphological manifestations, outcomes.
60. Rheumatoid arthritis: etiology, pathogenesis, morphological manifestations, outcomes.
61. Systemic lupus erythematosus: etiology, pathogenesis, morphological manifestations, outcomes.
62. Lung cancer: etiology, pathogenesis, morphological manifestations, outcomes.
63. Lobar pneumonia: etiology, pathogenesis, morphological manifestations, outcomes.
64. Gastric or peptic ulcer: etiology, pathogenesis, morphological manifestations, outcomes.
65. Stomach cancer. Precancerous conditions and changes. Clinical and morphological classification. Histological forms and complications.
66. Inflammatory and tumor diseases of the intestine. Etiology, pathogenesis, morphological manifestations, outcomes.

67. Hepatitis: etiology, pathogenesis, morphological manifestations, outcomes.
68. 68. Hepatosis (toxic liver dystrophy): etiology, pathogenesis, morphological manifestations, outcomes.
69. Cirrhosis of the liver: etiology, pathogenesis, morphological manifestations, outcomes.
70. Glomerulonephritis: etiology, pathogenesis, morphological manifestations, outcomes.
71. Glomerulonephritis: etiology, pathogenesis, morphological manifestations, outcomes.
72. Urolithiasis: etiology, pathogenesis, pathological anatomy, complications, outcomes.
73. Acute renal failure - necrotic nephrosis: causes, pathogenesis, morphological characteristics, outcomes.
74. Chronic renal failure: etiology, pathogenesis, morphological manifestations, outcomes.
75. Renal amyloidosis: etiology, pathogenesis, morphological manifestations, outcomes.
76. Pathology of the male reproductive system. Etiology, pathogenesis, morphology, outcomes.
77. Pathology of the female reproductive system. Etiology, pathogenesis, morphological manifestations, outcomes.
78. Diabetes mellitus: etiology, pathogenesis, morphological manifestations, outcomes.
79. Goiter (current): etiology, pathogenesis, morphological manifestations, outcomes.
80. Thyroid tumors: etiology, pathogenesis, morphological manifestations, outcomes.
81. Breast diseases. Breast cancer: etiology, pathogenesis, morphological manifestations, outcomes.
82. Trophoblastic disease. Chorionepithelioma. Causes, morphological manifestations.
83. Pathology of the placenta. Etiology, pathogenesis, morphological manifestations, outcomes.

84. Ectopic pregnancy: etiology, pathogenesis, morphological manifestations, outcomes.
85. Diseases of progenesis and kimatogenesis: causes, mechanism of development, morphological characteristics. Gametopathy. Blastopathy.
86. 86. Perinatal pathology: asphyxia (anoxia), pneumopathy. Childbirth trauma: etiology, pathogenesis, morphological manifestations, outcomes.
87. Perinatal pathology (hemorrhagic and hemolytic disease of newborns): etiology, pathogenesis, morphological manifestations, outcomes.
88. Morphological characteristics and the most important congenital malformations.
89. Primary tuberculosis: etiology, pathogenesis, morphological manifestations, outcomes.
90. Hematogenous tuberculosis: etiology, pathogenesis, morphological manifestations, outcomes.
91. Secondary tuberculosis: etiology, pathogenesis, morphological manifestations, outcomes.
92. Acute respiratory viral infectious diseases (influenza, parainfluenza): epidemiology, types, pathological anatomy, complications, causes of death.
93. Meningococcal infection: etiology, pathogenesis, morphological manifestations, outcomes.
94. Diphtheria: etiology, pathogenesis, morphological manifestations, outcomes.
95. Syphilis: etiology, pathogenesis, morphological manifestations, outcomes.
96. Osteomyelitis: etiology, pathogenesis, morphological characteristics, complications, outcomes.
97. Typhoid fever: etiology, pathogenesis, morphological manifestations, outcomes.
98. Cholera: etiology, pathogenesis, morphological manifestations, outcomes.
99. Sepsis: etiology, pathogenesis; morphological manifestations, outcomes.
100. Dermatopathology (skin diseases): etiology, pathogenesis, morphological manifestations, outcomes.